

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

1-31. (Canceled)

32. (New) A system for monitoring and controlling fluid flow and consumption, comprising:

- a valve;
- a flow sensor that monitors the fluid flow, and generates a signal;
- an interface module that receives the signal, and shuts the valve when the fluid flow exceeds a predetermined threshold; and
- a power panel that includes a processor and the interface module.

33. (New) The system of claim 32, wherein the sensor is configured to monitor the volume of fluid flow through a conduit, and the predetermined threshold is an amount of water flow during a defined time period.

34. (New) The system of claim 32, further comprising a pressure sensor that senses a pressure and generates a pressure signal when the pressure exceeds a predetermined threshold.

35. (New) The system of claim 32, further comprising a temperature sensor that senses a temperature and generates a temperature signal when the temperature exceeds a predetermined threshold.

36. (New) The system of claim 32, wherein the interface module communicates with the valve to disconnect a water or energy source.

37. (New) The system of claim 32, wherein the processor receives the signal from the sensor, and communicates with the interface module to close the valve.

38. (New) The system of claim 32, further comprising a motherboard having a communication port that enables communications via the processor.

39. (New) The system of claim 32, wherein the panel further comprises a network interface.

40. (New) The system of claim 39, wherein the network interface is configured to communicate data over a power line.
41. (New) The system of claim 39, wherein the network interface is configured to communicate data over a wireless network.
42. (New) The system of claim 39, wherein the interface module is configured by a remote computer via the network interface.
43. (New) The system of claim 32, wherein the system monitors and controls fluid flow and consumption of a residential structure.
44. (New) The system of claim 32, wherein the processor is coupled to a media interface configured to receive a video signal, and wherein the processor communicates the video signal and information identifying a location of the sensor to at least one of a remote monitor and a display.
45. (New) The system of claim 32, wherein the panel further comprises a user interface configured to receive input from a user.
46. (New) The system of claim 39, wherein the processor is configured to communicate data to a remote monitor over the network interface.
47. (New) The system of claim 32, wherein the panel further comprises a display.
48. (New) The system of claim 32, wherein the panel further comprises a handheld device.
49. (New) A method of monitoring and controlling a fluid system, comprising:
 providing a panel that monitors a plurality of sensors;
 connecting the panel to the plurality of sensors; and
 connecting the panel to at least one interface module.
50. (New) The method of claim 49, wherein the at least one interface module is configured to communicate with at least one of the plurality of sensors.